DESIGN PANEL NO. 24 - 7-24-97

SYSTEM BUILD CSCI - Al Menendez

OVERVIEW

The Subsystem Build CSC is responsible for defining SCID's, setting up and maintaining the System Build Repository and compiling and linking all system software, including the Gateway software. The System Build Repository will be setup and maintained on the Auspex which is located in the Shuttle Data Center (SDC).

The Subsystem Build CSC also provides the capability to build System Software from the CM Repository into the System Build Repository. This capability is independent of Test builds yet supports multiple Test builds. This capability also provides a method for identifying repeatable System Builds called a System Configuration Indentifier (SCID). The SCID, and its revision number is a repeatable collection of product baselines that support multiple test builds (TCIDs) on a particular set configuration. This set configuration ranges from a set used for Application Debug, to a partially operational set that may be used for test and integration, and finally to a fully operational set.

ACTIONS	ACTIONEE	DUE DATE	STATUS
Determine where the Hurricane Backup Plan will be documented.	Larry Wilhelm	08-01-97	In Work

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CLCS DBSAFE - Jerry Murr

OVERVIEW

CLCS DBSAFE is a comprehensive Checkout and Launch Control System (CLCS) software capability that provides an interactive user interface supporting the evaluation, incorporation, and historical tracking of engineering changes to the FD Database. DBSAFE for CLCS is ported code baselined from the DBSAFE software development for the replatform of CCMS Support to the Shuttle Data Center (SDC).

The core purpose of the CLCS DBSAFE is to provide the capability to maintain the FD Database. The FD Database is the portion of the CLCS DBSAFE database that contains the information on the measurements, commands, and system parameters needs for CLCS. The attributes of measurements and commands for the orbiters, payloads, ground support equipment, etc., are collected from the various design agencies, processed into a format that is compatible with CLCS, and stored in the FD Database using CLCS DBSAFE software. The data is then available to support the CLCS Application S/W Development Environment and Test Build processes.

CLCS DBSAFE also provides the capability to create and maintain TCID build specification for the FD Directory Build process. CLCS DBSAFE validates and stores user specification in the CLCS DBSAFE database. CLCS DBSAFE facilitates the generation of TCID specification by automating the following functions:

- Assignment and traceability of Vehicle Configuration Names (VCN) and formats to Test Configuration Identifiers (TCID) based on a list of engineering provided by Ground Support Integration (GSI)
- Assignment of projected VCN's and formats to TCIDs based on matching each mission/TCID configuration to the effectivities of engineering changes in the
- Assignment and traceability of format revisions to each mission/TCID based on the format engineering defined in the Shuttle Data Tape (SDT)
- Support elimination of invalid/duplicate/overlapping addressing in the FD Database, that would otherwise cause errors in a TCID build

ACTIONS	ACTIONEE	DUE DATE	STATUS

No action required.